Service Manua

RS-631

Front-Loading Vertical Hold High Fidelity Stereo Cassette Deck with Memory Auto Play and Separate 3-Position Bias/Equalization Selectors



RS-631 MECHANISM SERIES

Specifications (Catalog specifications for sales)

Power requirement: AC: 110/125/220/240 V, 50/60 Hz

Power consumption; 13 W

FG servo DC motor Motor:

Track system: 4-track 2-channel stereo recording and playback

Tape speed: $4.8 \, \text{cm/s}$

0.06% (WRMS), $\pm 0.15\%$ (DIN) Wow and flutter:

Frequency response: CrO₂/FeCr tape; 25~16,000 Hz

30~15,000 Hz (DIN) 40~14,000 Hz ±3dB

Normal tape; 25~14,000 Hz 30~13,000 Hz (DIN) $40 \sim 12,000 \, \text{Hz} \pm 3 \, \text{dB}$

Signal-to-nois ratio: Dolby NR in; 67 dB (above 5 kHz) Dolby NR out; 57 dB (signal level = max. record-

ing level, CrO₂/FeCr tape)

Fast forward and rewind time: Approx. 90 seconds with C-60 cassette tape

MIC; sensitivity 0.25 mV, applicable microphone Input: impedance 400Ω~20 KΩ

LINE; sensitivity 60 mV, input impedance 33 KΩ

DIN; sensitivity 0.26 mV, input impedance 1.5 KΩ

LINE; output level 420 mV, load impedance 47 KΩ over

DIN; output level 420 mV, output impedance

 $10 \, \text{K}\Omega$ over

HEADPHONE; output level 60 mV, load impedance

 8Ω

Rec/pb connection: 5P DIN type Head: 2-head system

1-HPF head for record/playback 1-double-gap ferrite head for erasure

 $43.0 \text{ cm}(W) \times 14.9 \text{ cm}(H) \times 26.7 \text{ cm}(D)$ Dimensions:

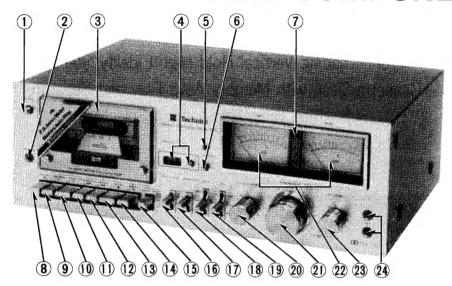
Weight: 7.6kg

Specifications are subject to change without notice.

Output:



LOCATION OF CONTROLS AND COMPONENTS



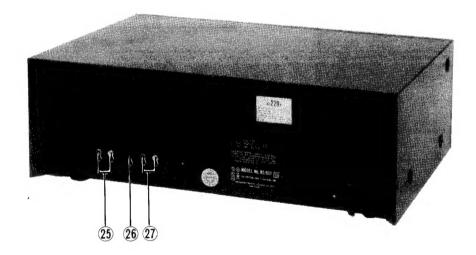
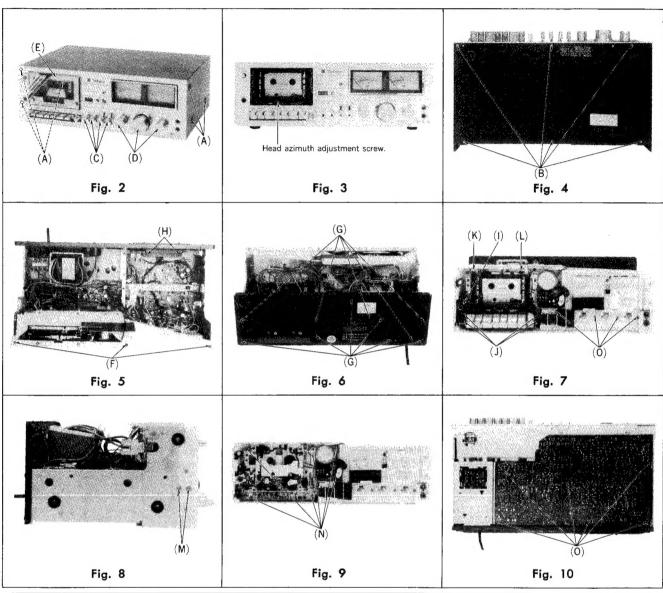


Fig. 1

- 1 Power switch
- ② Headphones jack
- 3 Cassette compartment door
- 4 Tape counter and reset button
- Memory indication lamp
- 6 Memory switch
- Recording indication lamp
- 8 Pause button
- Record button
- 10 Playback button
- ① Rewind/review button
- 12) Fast forward/cue button
- (13) Stop button
- (4) Eject button

- (15) Timer stand-by button
- 16 Peak-signal-check switch
- 1 Dolby noise-reduction switch
- (18) Bias selector
- 19 Equalization selector
- 20 Output level control
- 2 Line input level controls
- 22 Peak level/VU meters
- 23 Microphone level controls
- 24 Microphone jacks
- 25 Line output jacks
- 26 Record/playback connection socket
- 27 Line input jacks

DISASSEMBLY INSTRUCTIONS



Procedure	To remove ——.	Remove —— .	Shown in fig. ——.
1	Case cover	• 6 black screws(A)	2
2	Bottom cover	• 6 screws · · · · · (B)	4
3	Front panel	4 lever knobs	2 2 2, 3 5
3	Rear board	• 11 black screws(G) • 2 red screws(H)	6 5
5	Control button assembly and cassette holder	Headphones jack cover(1) 4 red screws(J) Stop ring(K) Cassette holder spring(L)	7 7 7 7
6	Mechanism	2 headphones jack holding screw ··· (M) 6 red screws ·······(N)	8 9
6	Main amplifier	• 10 red screws(O)	7, 10

MEASUREMENT AND ADJUSTMENT METHOD

NOTE:

- 1. Make sure heads are clean.
- 2. Make sure capstan and pressure roller are clean.
- 3. Judgeable room temperature: 20±5°C (68±9°F).

4. Dolby NR switch: OUT.

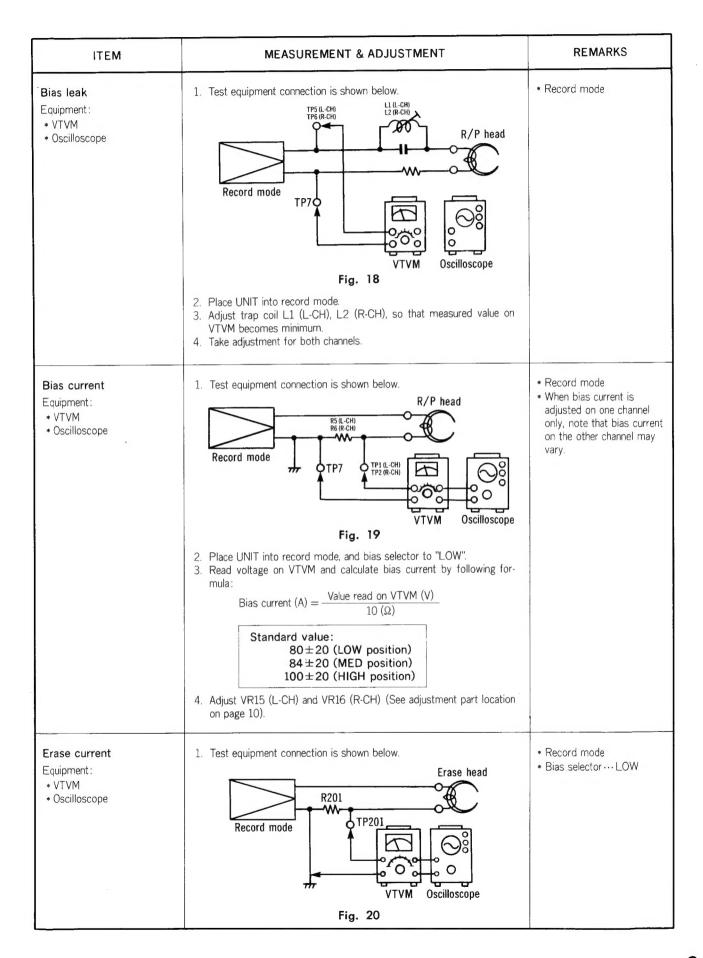
5. Bias selector: LOW.

6. Equalizer selector: 120 µS.

ITEM	MEASUREMENT & ADJUSTMENT	REMARKS
Pressure of pressure roller Equipment: * Tension gauge (max. 500 gr) Fig. 11	 Place UNIT into playback mode. Hook the tension gauge to pressure roller lever and pull it in the direction of the arrow as shown in fig. 12. Measure the tension at the moment when the pressure roller moves away from the capstan. Standard value: 400±50 gr Adjustment method Bend the part (A) of the pressure roller spring in either direction shown by the arrow until the correct pressure is attained. 	Playback mode Capstan Pressure roller spring Fig. 12
Takeup tension Equipment: * Cassette torque meter QZZSRKCT	 Mount cassette torque meter on UNIT. Place UNIT into playback mode and read takeup torque. Measure several times and determine the mean value. Standard value: 55±15 gr-cm	* Playback mode
Head azimuth adjustment Equipment: * VTVM * Oscilloscope * Test tape (azimuth) QZZCFM	Record/playback head adjustment 1. Test equipment connection is shown below. LINE OUT Test tape Playback mode VTVM Oscilloscope Fig. 13 2. Play azimuth tape (QZZCFM 8kHz). 3. Adjust record/playback head angle adjustment screw (B) in fig. 14 so that output level at LINE OUT becomes maximum. 4. Measure both channels, and adjust levels for equal output. 5. After adjustment lock head adjustment screw with lacquer.	* Playback mode Record/playback head (B) Fig. 14

ITEM	MEASUREMENT & ADJUSTMENT	REMARKS
Tape speed Equipment: * Digital electronic counter or frequency counter (RP8067) * Test tape ··· QZZCWAT	Tape speed accuracy 1. Test equipment connection is shown below. R/P head Fig. 15 2. Play test tape (QZZCWAT 3,000 Hz), and supply playback signal to frequency counter. 3. Measure this frequency. 4. On the basis of 3,000 Hz, determine value by following formula: Tape speed accuracy = \frac{f - 3,000}{3,000} \times 100 (%) where, f = measured value 5. Take measurement at middle section of tape. Standard value: \pm 1.5% Adjustment method 1. Play the test tape (middle). 2. Adjust VR201 so that frequency becomes 3,000 Hz. Tape speed fluctuation Make measurements in same manner as above (beginning, middle and end of tape), and determine difference between maximum and minimum values and calculate as follows: Tape speed fluctuation = \frac{f_1 - f_2}{3,000} \times 100 (%) f_1 = maximum value f_2 = minimum value Standard value: 1%	* Playback mode
Wow and flutter Equipment: * Wow meter * Test tape ··· QZZCWAT	1. Test equipment connection is shown below. LINE OUT Test tape Playback mode Wow meter Fig. 16 2. Use wow test tape (3,000 Hz) and measure its playback signal on wow meter. 3. Wow and flutter is expressed in percentage and that measurement can be weighted by JIS network (WRMS). 4. Measure at middle section of test tape. Standard value: 0.1% (WRMS)	* Playback mode

ITEM	MEASUREMENT & ADJUSTMENT	REMARKS
Playback frequency response Equipment: * VTVM * Oscilloscope * Test tape ··· QZZCFM	 Test equipment connection is as same as "Head azimuth adjustment" but use the test tape instead of head azimuth tape (See fig. 17). Place UNIT into playback mode. Playback frequency response test tape. Measure output level at 8 kHz, 4 kHz, 1 kHz, 315 Hz, 250 Hz, 120 Hz and 63 Hz, and compare each output level with standard frequency 315 Hz, at LINE OUT. Make measurement for both channels. Make sure that the measured value is within the range specified in the frequency response chart. Playback frequency response chart Playback frequency response chart Fig. 17 Adjustment method If the measured value is not standard, adjust VR1 (L-CH), VR2 (R-CH).	* Playback mode * Output level control MAX
Playback gain Equipment: * VTVM * Oscilloscope * Test tape ··· QZZCFM	1. Test equipment connection is shown in fig. 13. 2. Play standard recording level portion on test tape (QZZCFM 315Hz), and using VTVM measure the output level at LINE OUT jack. 3. Make measurement for both channels. Standard value: 0.42V (-7dB) Adjustment method 1. If measured value is not standard, adjust VR3 (L-CH), VR4 (R-CH) (See fig. 28 on page 10). 2. After adjustment, check "Playback frequency response" again.	* Playback mode * Output level controlMAX
Playback S/N ratio Equipment: * VTVM * Oscilloscope * Test tape ··· QZZCFM * Empty cassette	 Test equipment connection is shown in fig. 13. Play standard recording level test tape (QZZCFM 315Hz) and read output level on VTVM. Refer to "Playback gain adjustment". Place empty cassette (which has been cut) and playback again. Measure noise level at this time using VTVM, and determine ratio of this level to test tape output signal voltage (315Hz). Standard value: Greater than 43dB	* Playback mode * Output level controlMAX



ITEM	MEASUREMENT & ADJUSTMENT	REMARKS
	 Place UNIT into record mode and set the bias selector to LOW position. Read voltage on VTVM and calculate erase current by following formula: Erase current (A) = Value read on VTVM (V) 1 (Ω) Standard value: More than 40 mA 	
Overall gain Equipment: * AF oscillator * VTVM * ATT * Oscilloscope * Test tape (reference blank tape)	1. Test equipment connection is shown in fig. 21. ATT 600 Ω R/P head Record mode Record mode Test tape	* Record/playback mode * LINE IN level control MAX * Output level control MAX * Standard input level: MIC
··· QZZCRA for Normal	R/P head LINE OUT Playback mode VTVM Oscilloscope Fig. 21 2. Place UNIT into record mode, and equalizer selector to 120μS, bias selector to LOW (for normal tape). 3. Supply 1 kHz signal (-24 dB) from AF oscillator, through ATT, to LINE IN. 4. Adjust ATT until monitor level at LINE OUT becomes 0.42 V (-7 dB). 5. Using test tape, make recording. 6. Playback recorded tape, and make sure the value at LINE OUT on VTVM becomes 0.42 V. 7. If measured value is not 0.42 V, adjust VR9 (L-CH), VR10 (R-CH) (See fig. 28 on page 10). 8. Repeat from step (2).	
Level meter Equipment: * VTVM * Oscilloscope * AF oscillator * ATT	 Test equipment connection is shown in fig. 22. LINE OUT LINE OUT	* Record mode * LINE IN level control MAX * Output level control MAX

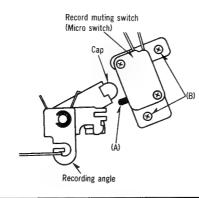
ITEM **MEASUREMENT & ADJUSTMENT** REMARKS * Record/playback mode Overall distortion 1. Test equipment connection is shown in fig. 23. * LINE IN level control Equipment: LINE IN ... MAX * Distortion meter R/P head * Output level control * AF oscillator निनिन \dots MAX * ATT 600Ω Record * Oscilloscope ATT AF oscillator Test tape * Test tape (reference blank tape) LINE OUT R/P head ... QZZCRA for Normal ... QZZCRX for CrO2 Playback mode Oscilloscope Distortion Test tape meter Fig. 23 2. Supply 1kHz signal to LINE IN and adjust ATT so that output level at LINE OUT indicates 0.42 V (-7 dB). 3. Make recording. 4. Playback and measure distortion factor of output signal. 5. When the distortion factor does not satisfy the standard, check the bias current. When the bias current is lower than standard, distor-Care should be exercised in the adjustment because the bias current also has an influence on the overall frequency response. Refer to "The overall frequency response" and "The bias current adjustment". Standard value: Less than 2.5% (Normal) Less than 4.0% (CrO₂) * Record/playback mode Overall frequency response Note: * LINE IN level control Equipment: Before measuring, and adjusting, make sure of the playback frequency ... MAX response (For the method of measurement, please refer to the playback * VTVM * Output level control frequency response). * AF oscillator $\dots MAX$ 1. Test equipment connection is shown in fig. 21. * ATT * Test tape 2. Load reference blank test tape and place UNIT into record mode. (reference blank tape) Supply 1kHz signal from AF oscillator through ATT to LINE IN. ... QZZCRA for Normal Adjust ATT so that input level is $-20 \, dB$ below standard recording ... QZZCRX for CrO2 level (standard recording level = 0 VU). 5. At this time, LINE OUT level indicates 0.042 V. 6. Record each frequency 50 Hz, 100 Hz, 200 Hz, 1kHz, 2kHz, 4kHz and 10 kHz (12 kHz for CrO2 tape) at the same level. Playback and express in dB the difference between playback output level of each frequency based on playback output level of 1kHz. 8. Make sure that the measured value is within the range specified in the overall frequency response chart. Overall frequency response chart (Normal) Fig. 24

ITEM	MEASUREMENT & ADJUSTMENT	REMARKS
	9. Set the bias selector to CrO ₂ position. 10. Measure as same as manner above. 11. Make sure that the measured value is within the range specified in the overall frequency response chart for CrO ₂ tape below. Overall frequency response chart (CrO ₂) **JdB** Odd** Odd** Odd** Fig. 25	
Overall frequency response adjustment 1. When the frequency response between the middle- and high-frequency range becomes higher than the standard value, as shown by the solid line in fig. 26, increase the bias current by turning VR15 (L-CH), VR16 (R-CH). 2. When it becomes lower, as shown by dotted line, reduce the bias current by turning VR15 (L-CH), VR16 (R-CH). Note: 1. For adjustment when the bias current is lower than the standard value use the procedure indicated in adjustment 2, because reducting the bias current beyond this point may worsen the distortion factor. 2. For the method of bias current measurement, refer to "Bias current adjustment" on page 6. Adjustment 2—Using the peaking coil for recording equalization When the frequency response is flat in the middle-frequency range and makes a sharp rise or drop in the high-frequency range, as shown in fig. 27, adjust by turning the peaking coil L3 (L-CH), L4 (R-CH) for normal tape recording equalization.		
Dolby NR circuit Equipment: * VTVM * AF oscillator * ATT * Oscilloscope	 Place UNIT into record mode, set the Dolby NR switch to OUT position and supply to LINE IN to obtain —34.5 dB at TP3 (L-CH), TP4 (R-CH) (frequency 5 kHz). Confirm that the value at IN position is 8(±2.5) dB greater than the value at OUT position of Dolby NR switch. 	* Record mode * LINE IN level control MAX

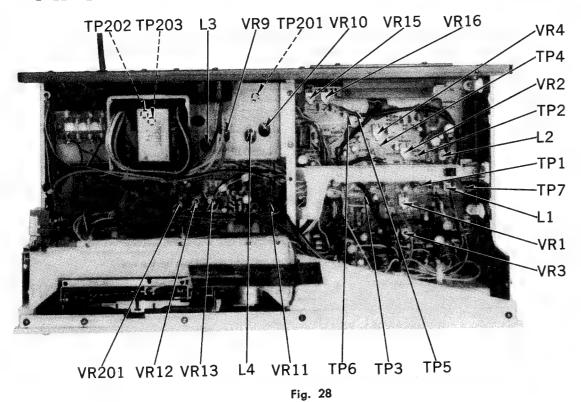
ITEM	MEASUREMENT & ADJUSTMENT	REMARKS
Overall S/N ratio Equipment: * VTVM * AF oscillator * ATT * Oscilloscope * Test tape (reference blank tape) QZZCRA	 Test equipment connection is shown in fig. 21. Supply 1kHz signal to LINE IN and adjust ATT so that output level at LINE OUT indicates 0.42 V (-7 dB). Make recording. Make another recording without supplying signal (disconnect input plug to LINE IN). Rewind to recorded part and playback. Measure output signal level and no signal level (noise), and determine the ratio in decibels (dB). The value is difference between "Playback S/N and overall S/N", but for decibel calculation refer to "Playback S/N measurement" on page 5. Standard value: Greater than 40 dB (without NAB filter)	* Record/playback mode * LINE IN level controlMAX * Output level controlMAX * Erase the tape with a bulk tape eraser.

HOW TO INSTALL THE RECORD-MUTING SWITCH

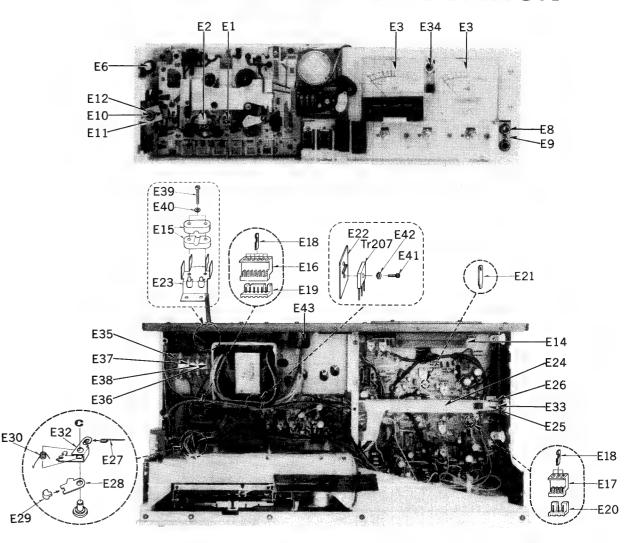
- 1. Lock the record button, and then mount it with screw (B) so that the cap and micro switch (A) do not contact each other.
- 2. Then play the music tape. Durring the playback, press the record button lightly several times, confirm whether the playback sound is interrupted or



ADJUSTMENT PARTS LOCATION



ELECTRICAL PARTS LOCATION

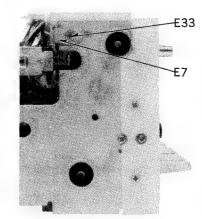


Part Name & Description

Part No.

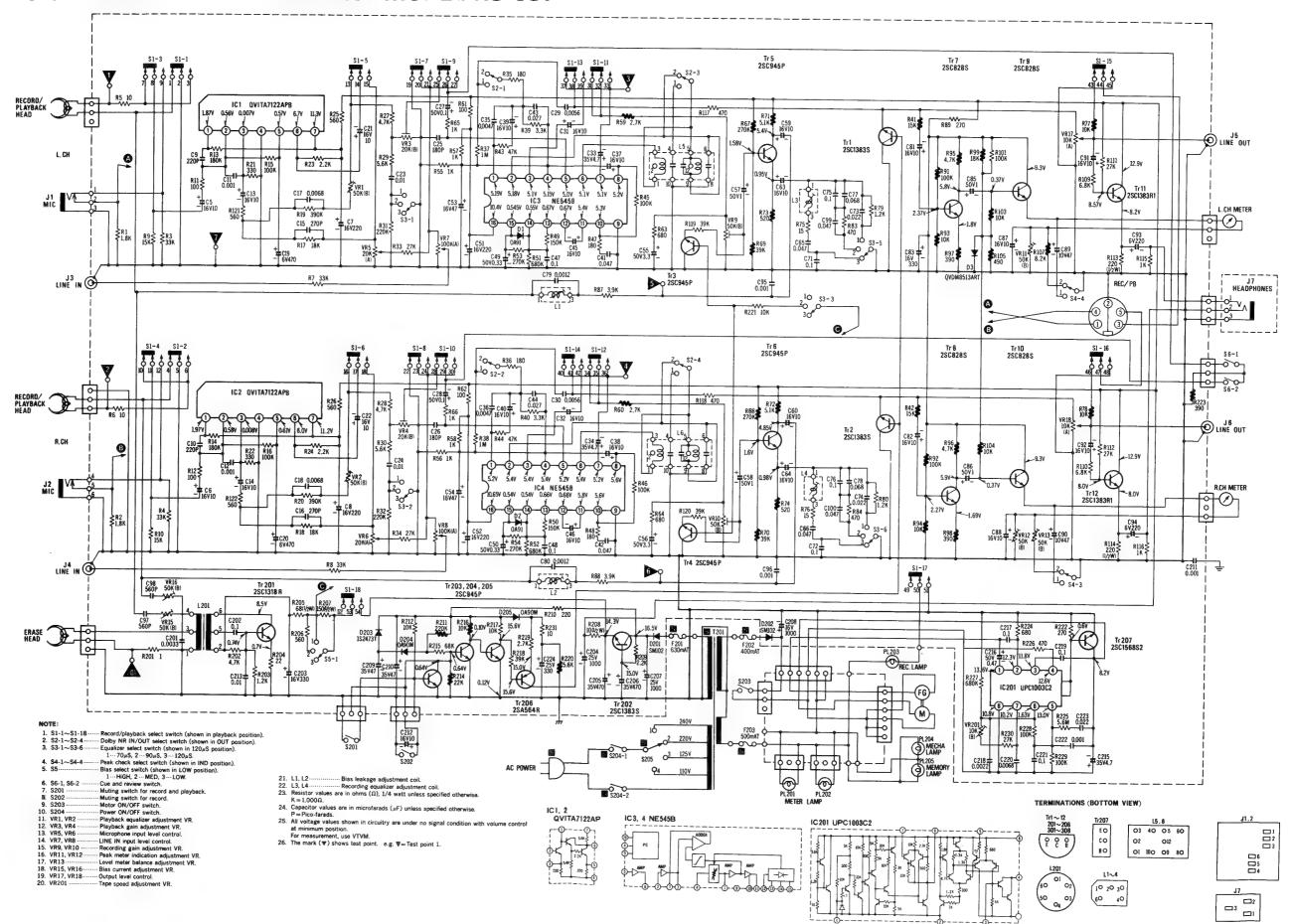
Symbols after Ref. No. indicate; ▲ for Scandinavia.
 for United Kingdom.

2. S indicates that only parts specified by the manufacturer Check Pin OJT0053 QTH1118 Heat Sink QMA3202 Switch Lever OWY2122Z Erase Head OSL9010RN Level Meter with Pilot Lanv E25 OMA3208 Friction Metal QBT1787 Lock Lever Spring E4 ▲ S QFC1205M QBS1115 Recording Connection Wire QBJ1425 Power Cord Bushine QMA3247 **Muting Detection Lever** 0XB0531 Push Button (Power Switch E29 QMF1692 Micro Switch Holding Plate QMA3257 QMA3229 Microphone Jack Angle QMA3203 Recording Angle OJA0249 XSNQ0004S Step Screw E12 QNQ1070 QTF1039 Fuse Holder E13 OEJ5002HA Jack Board Assembly XBA00003 Fuse (500mAT) OMA3207 Jack Board Angle Fuse (630mAT) E38 S XBAQ0007 6 Pin Housing QJS1922TN XSN3+25 Screw ⊕3×25 OJS1921TN 3 Pin Housing XWA3B Spring Washer 3¢ XSN26+6 Screw ⊕2.6×6 E42 XWC26B Lock Washer 2.6¢ QJP1921TN



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SCHEMATIC DIAGRAM MODEL RS-631



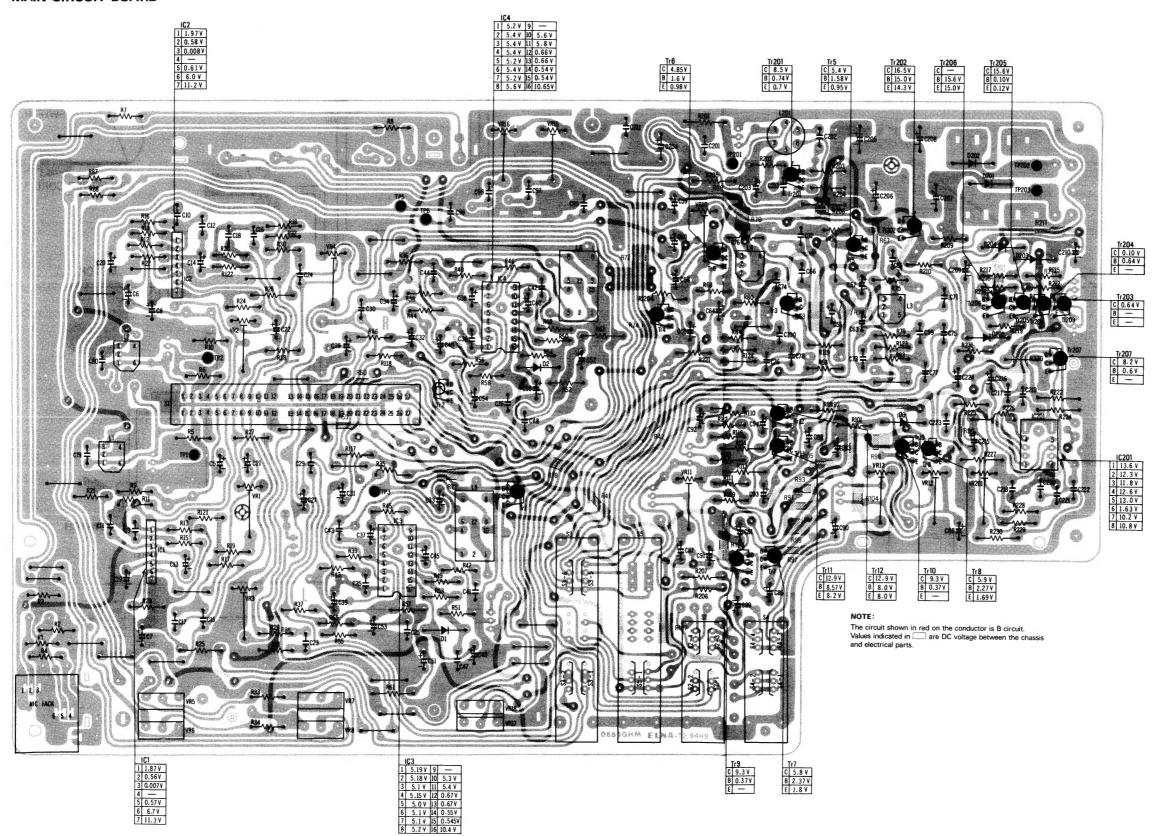
NOTE: 1. Symbols after Ref. No. indicate;

...for Scandinavia.
...for United Kingdom.
2. Si indicates that only parts specified by the manufacturer be used for safety.

Ref. No.	Part No.	Part Name & Description	Ref. No.	Part No.	Part Name & Description	Ref. No.		Part No.	Part Name & Description
						S203	П	QSB0178	Leaf Switch (Motor ON/OFF)
		TRANSFORMERS			SWITCHES	5204	8	QSW2214	Push Switch (Power ON/OFF)
T201 🛦 📳	QLPD27ELC	Power Transformer	51	QSS1202	Slide Switch (Record/Playback Selector)	S205	S	QSR1407	Rotary Switch (AC Voltage Selector)
T201 🌑 🖪	QLPA37ELC	н	S2	QST4215	Lever Switch (Dolby IN/OUT Selector)				
			\$3	QST6311	Lever Switch (EQ Selector)	1			PILOT LAMPS
		COILS	S4	QST4215	Lever Switch (Peak Check Selector)	PL201	П	XAMQ35	Level Meter Lamp
L1, 2, 3,	QLQM0333	Coil	\$5	QST6311	Lever Switch (Bias Selector)	PL202		XAMQ35	н
L5, 6	QLM9Z3K	MPX Trap Coil	S6	QSB0186	Leaf Switch (Cue/Review Switch)	PL203		XAMQ22P500N	Pilot Lamp (for Record)
L201	QLB0155	Oscillator Coil	S201	QSB0178	Leaf Switch (Muting Switch)	PL204		XAMQ34S600W	Pilot Lamp (for Mechanism)
			S202	QSM0070	Micro Switch (Muting Switch)	PL205		XAMQ21P400N	Pilot Lamp (for Memory)

MAIN CIRCUIT BOARD

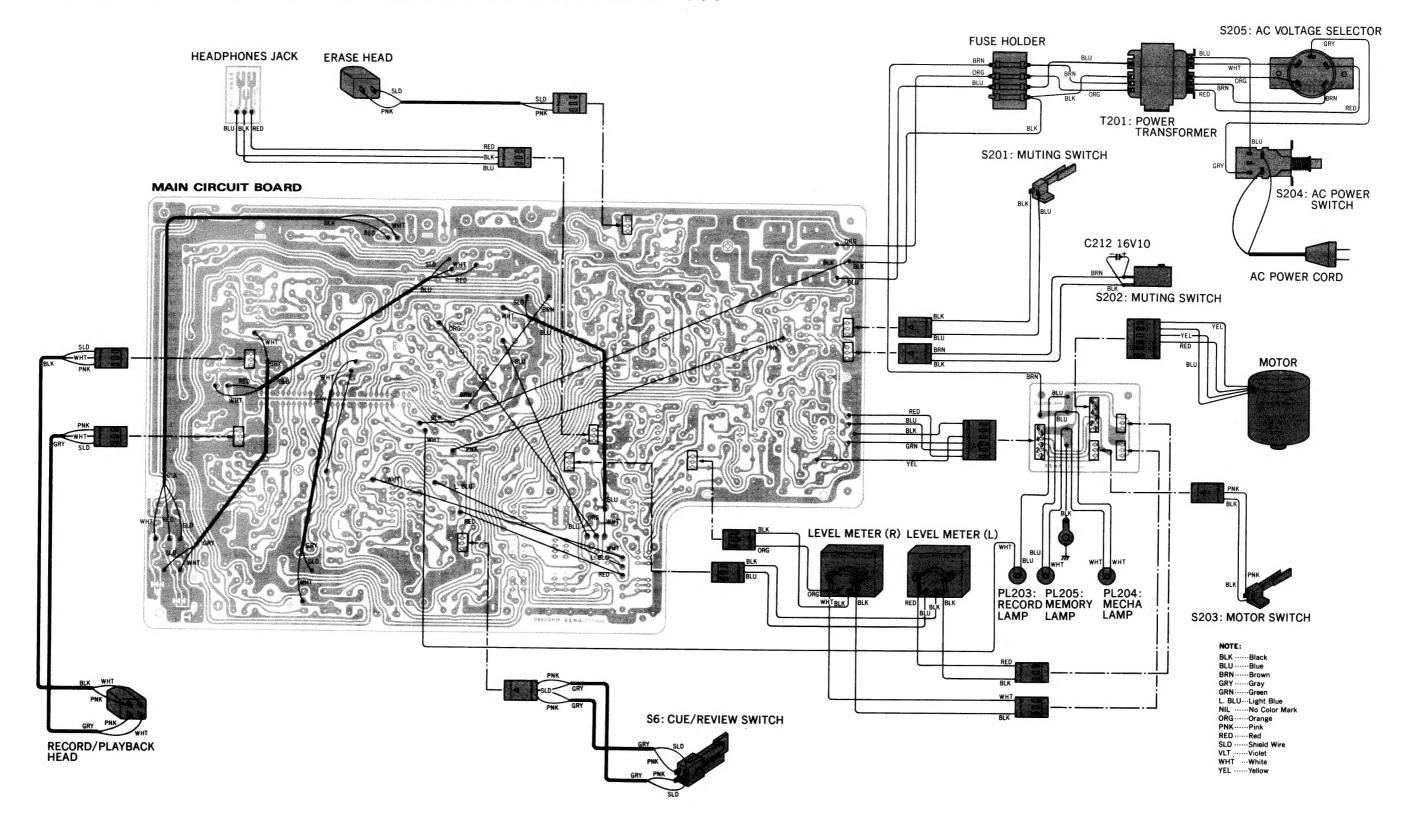
CIRCUIT BOARD



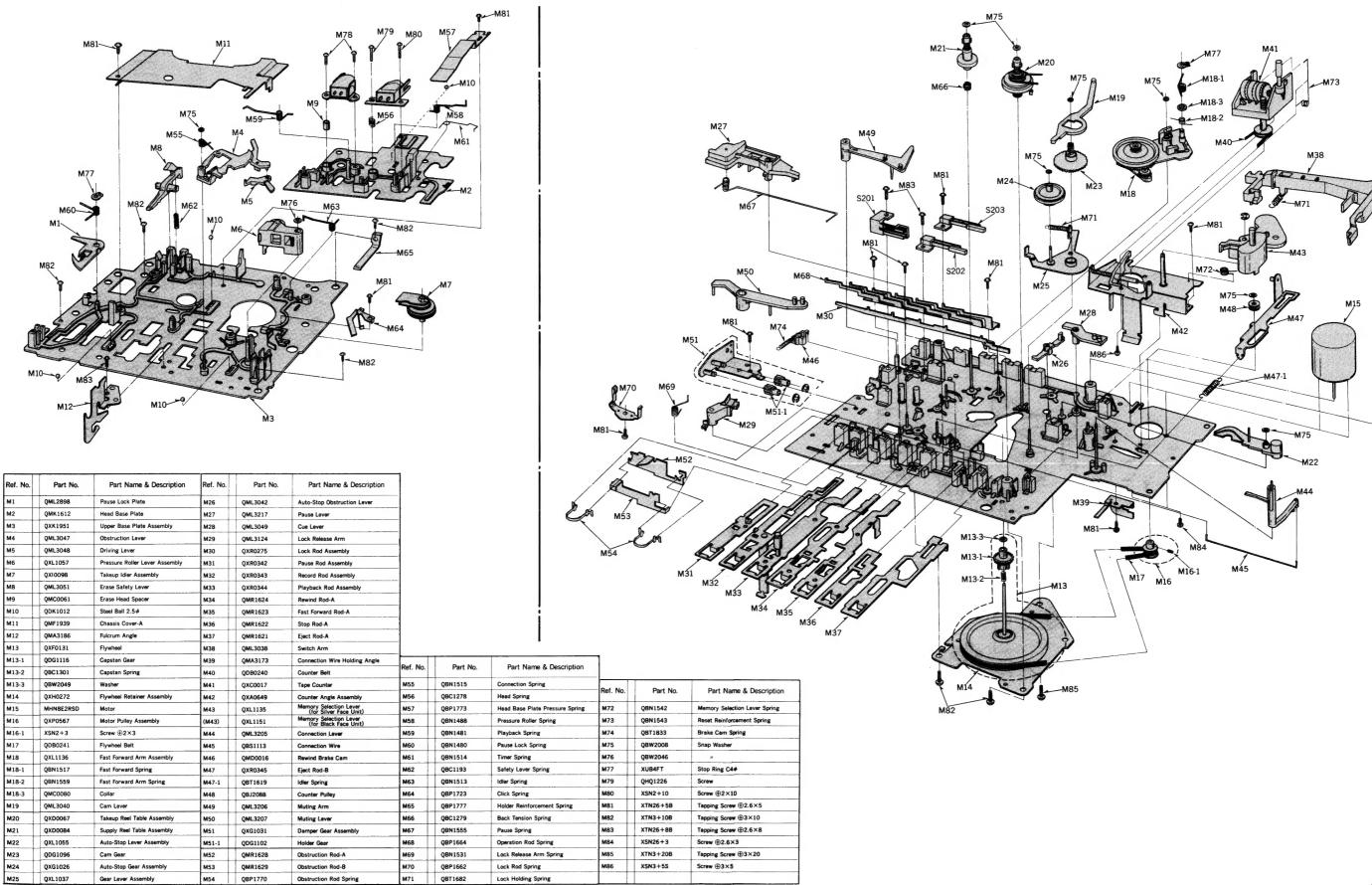
NOTE: RESITORS ERDCarbon ERGMetal oxide CAPACITORS ECEA Electrolytic ECCD Ceramic ECKD Ceramic ECKD Polyster ECQS Polysterne

Ref. No.	Part No.	Ref. No.	Part No.
	OICTORO	VR5, 6	EWKN3AF21A
RE	SISTORS	VR7, 8	EWKN3AF21A
R1, 2	ERD25TJ182	VR9, 10, 1	1, 12, 13, 15, 16
R3, 4	ERD25TJ333	1/017.10	EVLS3AA00B5
R5, 6 R7, 8	ERD25TJ100 ERD25TJ333	VR17, 18 VR201	EWK9KA025A EVLS3AA00B1
R9, 10	ER025TJ153	VNZOI	EVESSAMOOBI
R11, 12	ERD25TJ101	CA	PACITORS
R13, 14	ERD25TJ184	C5, 6	ECEA16Z10
R15, 16	ERD25TJ104	C7, 8	ECEA16V220
R17, 18	ERD25TJ183	C9, 10	ECCD1H221K
R19, 20	ERD25TJ394	C11, 12	ECKD1H102M
R21, 22	ERD25TJ331	C13, 14	ECEA16V10
R23, 24	ERD25TJ222	C15, 16	ECCD1H271K
R25, 26	ERD25TJ561	C17, 18	ECKD1H682M
R27, 28	ERD25TJ472	C19, 20	ECEA6V470
R29, 30	ERD25TJ562	C21, 22	ECEA16V10
R31, 32 R33, 34	ERD25TJ224 ERD25TJ273	C23, 24 C25, 26	ECQM05103K2
R35, 36	ERD251J273	C25, 26	ECCD1H181K ECEA50ZR1
R37, 38	ERD257J105	C29, 30	ECQM05562JZ
R39, 40	ERD25TJ332	C31, 32	ECEA16V10
R43, 44	ERD25TJ473	C33, 34	ECEA35Z4R7
R45, 46	ERD25TJ104	C35, 36	ECQM05472JZ
R47, 48	ERD25TJ181	C37, 38, 39, 40	ECEA16V10
R49, 50	ERD25TJ154	C41, 42	ECQM05473KZ
R51, 52	ERD25TJ684	C43, 44	ECQM05273JZ
R53, 54	ERD25TJ274	C45, 46	ECEA16V10
R55, 56, 57, 58	ERD25TJ102	C47, 48	ECQM05104KZ
R61, 62	ERD25TJ101	C49, 50	ECEA50ZR33
R63, 64 R65, 66	ERD25TJ681 ERD25TJ102	C51, 52	ECEA16V220
R75, 76	ERD25TJ150	C53, 54 C55, 56	ECEA16V47 ECEA50Z3R3
R79, 80	ERD25TJ122	C57, 58	ECEA50Z1
R83, 84	ERD25TJ471	C59, 60, 63, 64	ECEA16V10
R87, 88	ERD25TJ392	C65, 66	ECQM05473KZ
R89	ERD25TJ271	C71, 72	ECQM05104KZ
R101	ERD25TJ104	C73, 74	ECQM05223KZ
R109, 110	ERD25TJ682	C75, 76	ECQM05104KZ
R111, 112 R113	ERD25TJ273	C77, 78	ECQM05683KZ
R113, 114 R115.	ERG12ANJ221	C79, 80	ECQM05122KZ
R115, 116 R117, 118	ERD25TJ102 ERD25TJ471	C81, 82 C83	ECEA16V10
R119, 120	ERD25TJ393	C85, 86	ECEA50V1
R121, 122	ERD25TJ561	C87, 88	ECEA16V10
R201	ERD25TJ1R0	C89, 90	ECEA16V47
R202	ERD25TJ472	C91, 92	ECEA16V10
R203	ERD25TJ122	C93, 94	ECEA6V220
R204	ERD25TJ220	C95, 96	ECQM05102KZ
R205	ERG12ANJ680	C97, 98	ECKD1H561KB
R206	ERD25TJ561	C99, 100	ECQM05473KZ
R207	ERG12ANJ151	C201	ECQS1332KZ
R208 R209	ERG12ANJ100 ERD25TJ222	C202	ECQM05104KZ
R210	ERD251J222	C203	ECEA16V330 ECEA25V1000
R212	ERD25TJ103	C205, 206	ECEA35V470
R215	ERD25TJ683	C207	ECEA25V1000
R217	ERD25TJ103	C208	ECEA16V1000
R218	ERD25TJ393	C209, 210	ECEA35V47
R219	ERD25TJ272	C211	ECKD1H102MD
R221	ERD25TJ103	C212	ECEA16M10
R222	ERD25TJ271	C213	ECKD1H103ZF
R224	ERD25TJ681	C215	ECEA35V4R7
R225	ERC14GK565	C216	ECEA50ZR47
3226	ERD25TJ471	C217	ECQM05104KZ
R227 R228, 229	ERD25TJ684 ERD25TJ104	C218	ECQM05222KZ
229	ERD251J104 ERD25TJ273	C219 C220	ECQM05104KZ ECQM05682JZ
231	ERD25TJ100	C220	ECQM05682JZ ECQM05104KZ
		-	
VA	RIABLE	C222	ECQM05102K7
	RIABLE	C222 C223	ECQM05102KZ ECQM05223KZ

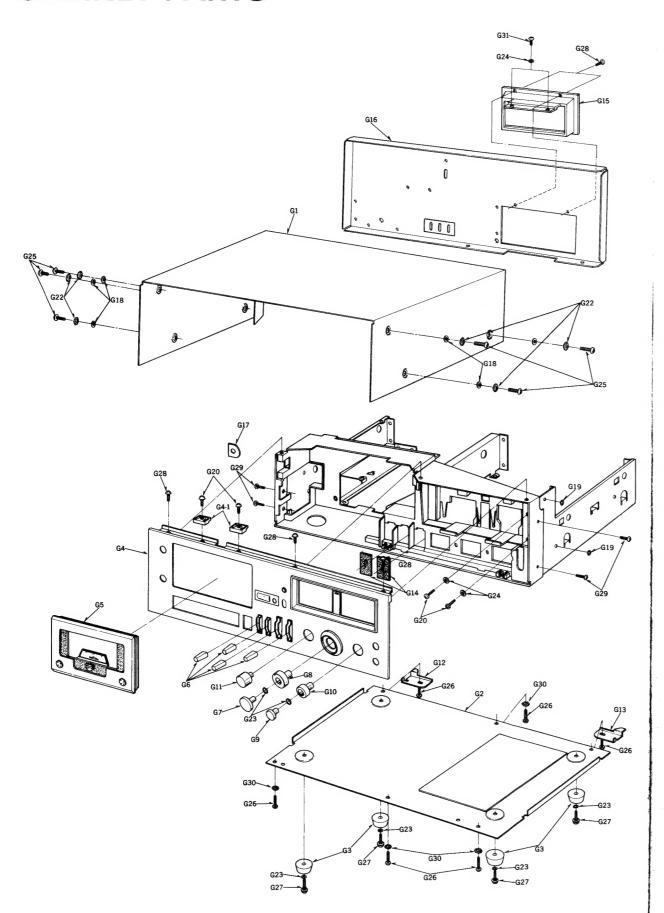
WIRING CONNECTION DIAGRAM MODEL RS-631

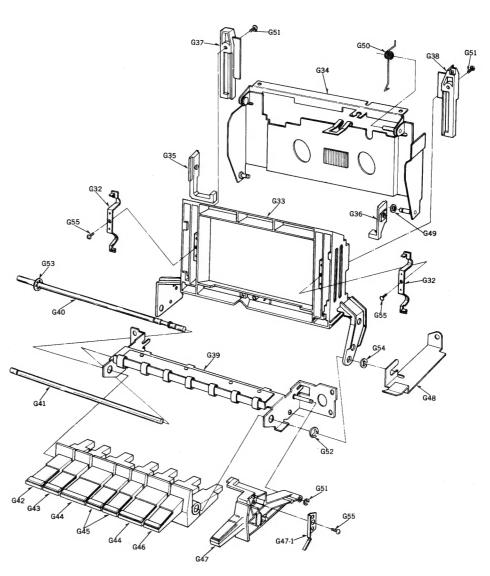


EXPLODED VIEWS



CABINET PARTS





ACCESSORIES

NOTE: Symbols after Ref. No. indicate;

A...for Scandinavia.

O...for United Kingdom.

Ref. No.	Part No.	Part Name & Description
A1	RP023A	Connection Cord
A2	QFT6TCJNTBFZ	Demonstration Tape
A3 🛦	QQT2227	Instruction Book
A3 •	QQT2228	н

PACKINGS

Ref. No.	Part No.	Part Name & Description
P1	QPN3651	Inside Carton
P2	QPA0331	Inner Cushion
P3	XZB50X65A05	Poly Bag
P4	QPA0340	Spacer
P5	QPS0285	Pad

NOTE: Symbols after Ref. No. indicate; A ··· for Scandinavia. • ··· for United Kingdom.

Ref. No.	Part No.	Part Name & Description
G1 🛦	QGC1079	Case Cover
G1	QGC1086	n
G2	QGC1080	Bottom Cover
G3	QKA1065	Rubber Foot
G4	QYP0715	Front Panel Assembly (for Silver Face Unit)
(G4)	QYP0716	Front Panel Assembly (for Black Face Unit)
G4-1	QKJ0235	Stopper Stopper
G5	QYF0308	Cassette Lid Assembly (for Silver Face Unit)
(G5)	QYF0309	Cassette Lid Assembly (for Black Face Unit)
G6	QYT0461	Lever Knob
G7	QYT0458	Volume Knob-A
G8	QYT0457	Volume Knob-B
G9	QYT0459	
G10	_	Volume Knob-C
	QYT0460	Volume Knob-D
G11	QYT1387	Volume Knob-E
G12	QMA3261	Reinforcement Angle-A
G13	QMA3262	Reinforcement Angle-B
G14	ОВНОО60	Spacer .
G15	QGK2769	Jack Board Ornament
G16	QGC1092	Back Cover
G17	QKJ0237	Headphones Spacer
G18	QBK7143	Fiber Washer
G19	QBH2040	Spacer
G20	XSN3+8S	Screw ⊕3×8
G21	QBW2023	Washer
G22	XWC4BFN	Lock Washer
G23	XWA4B	Spring Washer
G24	XWA3B	"
G25	XSN4+8BVS	Screw ⊕4×8
G26	XTN3+14B	Tapping Screw ⊕3×14
G27	XSN4+10S	Screw ⊕4×10
G28	XTN3+10B	Tapping Screw ⊕3×10
G29	XSS3+6S	Screw ⊕3×6
G30	хжсзв	Lock Washer
G31	XSN3+8S	Screw ⊕3×8
		Cassette Holder Section
G32	QBP1771	Holder Spring
G33	QKF6008	Cassette Holder
G34	QXH0271	Chassis Cover Assembly
G35	QKF6010	Holder Piece-L
G36	QKF6009	Holder Piece-R
G37	QMG0050	Holder Slider-L
G38	QMG0049	Holder Slider-R
G39	QXA0637	Push Button Holding Angle
G40	QMN2240	Push Button Shaft-A
G41	QMN1861	Push Button Shaft-B
G 42	QG01370	Push Button (PAUSE)
343	QG01371	Push Button (REC)
344	QG01373	Push Button (PLAY, STOP)
345	QG01374	Push Button (FF, REW)
346	QG01372	Push Button (EJECT)
347	QXB0508	Timer Button Assembly
347-1	QBP1774	Timer Button Spring
348	QMA3269	Reinforcement Angle
349	QBW2017	Washer
350		·
	QBN1554	Chassis Cover Spring
351	XUC25FT	Stop Ring 2.5≠
352	XUC4FT	Stop Ring 4¢
-		Stop Ring
553	QNQ1080	
353 354	XUC3FT	Stop Ring 3≠
553		